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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:32:13 ON 28 NOV 2005

=> file medline, biosis
COST IN U.S. DOLLARS

FULL ESTIMATED COST

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 0.63 | 0.63 |

FILE 'MEDLINE' ENTERED AT 12:33:41 ON 28 NOV 2005

=> s filamin I
L1 1 FILAMIN I

=> d l1 ti abs ibib tot

L1 ANSWER 1 OF 1 MEDLINE on STN
TI Binding of HeLa spectrin to a specific HeLa membrane fraction.
AB From 30-40 g of Hela-S3 cells grown in suspension, 0.25-0.50 mg of spectrin has been purified by conventional biochemical procedures starting from a low ionic strength extraction at alkaline pH of crude Hela membranes. Hela spectrin consists in its native form of a tetramer alpha 2 beta 2 of two high molecular weight polypeptides (240,000 and 230,000 daltons). Three different populations of Hela membranes depleted of both spectrin and actin have been prepared on discontinuous sucrose gradients. Surprisingly, spectrin will reassociate with only the heavier membrane fraction. This reassociation is specific for Hela spectrin, since three other purified Hela proteins as well as human erythrocyte spectrin do not reassociate under the same conditions. This binding is not due to the presence of traces of actin still present in the membrane fraction since two Hela actin-binding proteins (**filamin I** and II) do not show any significant binding to this fraction. The nature of the membrane-binding site for Hela spectrin is discussed.

ACCESSION NUMBER: 84106788 MEDLINE
DOCUMENT NUMBER: PubMed ID: 6686496
TITLE: Binding of HeLa spectrin to a specific HeLa membrane fraction.
AUTHOR: Mangeat P H; Burridge K
CONTRACT NUMBER: GM 29860 (NIGMS)
SOURCE: Cell motility, (1983) 3 (5-6) 657-69.
Journal code: 8207421. ISSN: 0271-6585.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198403
ENTRY DATE: Entered STN: 19900319
Last Updated on STN: 19970203
Entered Medline: 19840321

=> s filamin I and (cell migration inhibition)
L2 0 FILAMIN I AND (CELL MIGRATION INHIBITION)

=> s filamin I and (binding)
L3 1 FILAMIN I AND (BINDING)

=> d l3 ti abs ibib tot

L3 ANSWER 1 OF 1 MEDLINE on STN
TI **Binding** of HeLa spectrin to a specific HeLa membrane fraction.
AB From 30-40 g of Hela-S3 cells grown in suspension, 0.25-0.50 mg of spectrin has been purified by conventional biochemical procedures starting from a low ionic strength extraction at alkaline pH of crude Hela membranes. Hela spectrin consists in its native form of a tetramer alpha 2 beta 2 of two high molecular weight polypeptides (240,000 and 230,000 daltons). Three different populations of Hela membranes depleted of both spectrin and actin have been prepared on discontinuous sucrose gradients. Surprisingly, spectrin will reassociate with only the heavier membrane fraction. This reassociation is specific for Hela spectrin, since three other purified Hela proteins as well as human erythrocyte spectrin do not

reassociate under the same conditions. This **binding** is not due to the presence of traces of actin still present in the membrane fraction since two HeLa actin-**binding** proteins (**filamin I** and **II**) do not show any significant **binding** to this fraction. The nature of the membrane-**binding** site for HeLa spectrin is discussed.

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